

ABSTRACT

The invention is directed towards a cooking thermometer having an audible alarm and triggering mechanism therefore. The cooking thermometer includes a skewer having a segment of nitinol wire disposed therein. The nitinol wire is secured to a connecting wire which extends upwardly into the housing and is vertically displaceable within the skewer. The connecting wire extends out of the skewer into a wire guide having a curvilinear passage therein which is adapted to allow sliding displacement of the connecting wire therethrough. The upper end of the connecting wire is fixedly attached to a gear assembly whereby sliding displacement of the connecting wire causes the rotation of the gear assembly, which engages a spur gear train which is connected to a pivoting pointer positionable over the temperature indicia plate. A spring biasing means is constructed and arranged to exert stress on the nitinol wire through the gear assembly to extend the temperature transformation range and optimize the linearity of the transition of the austenite/martensite response.

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